

**PATENT ABSTRACTS OF JAPAN**(11)Publication number : **61-174103**(43)Date of publication of application : **05.08.1986**

(51)Int.Cl.

**C01B 13/14  
C01B 33/18  
C01F 7/02  
C01G 23/053  
C01G 25/02**(21)Application number : **60-011718**(71)Applicant : **SHOKUBAI KASEI KOGYO KK**(22)Date of filing : **23.01.1985**(72)Inventor : **SATO GORO****ARIMA YUSAKU****KOMATSU MICHIO****TANAKA HIROKAZU****TANAKA YOSHITSUNE****SHIMADA TAKEO****(54) PRODUCTION OF POROUS SPHERICAL AND PULVEROUS POWDER  
CONSISTING OF METALLIC OXIDE**

(57)Abstract:

PURPOSE: To obtain porous spherical and pulverous powder having a desired grain size by spraying a slurry mixture composed of an inorg. oxide colloid and inorg. oxide gel into gaseous flow.

CONSTITUTION: 10W95pts. colloid liquid of the inorg. oxide or hydrous oxide of Si, Ti, Al, etc. and 5W90pts. gel of the inorg. oxide are mixed to prepare the slurry. The average grain size of the primary particles of such colloid liquid is preferably about  $\leq 2,500\text{\AA}$ ; and the size of the gel is preferably  $\leq 1\mu$ . Such slurry is sprayed into gaseous flow and is dried. The porous spherical and pulverous powder having 1W20 $\mu$  average grain size and about 0.1W0.8cc/g pore volume is obtd. by the above-mentioned method. Such pulverous powder is usable for a filler for ink, toner, release property reformer, etc.

**LEGAL STATUS**

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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